DNA polymerase α does not mediate $G_0 - G_1$ increase in yield of X-ray induced exchange aberrations in human peripheral blood lymphocytes
by M.A Bender and R.C. Moore (U.S.A., Australia) 111
Uracil – DNA glycosylase activity affects the mutagenicity of ethyl methanesulfonate: Evidence for an alternative pathway of alkylation mutagenesis
by D.F. Fix, D.R. Koehler and B.W. Glickman (Canada) 115
The 8-hydroxyguanine content of isolated mitochondria increases with lipid peroxidation
by A.M. Hruszkewycz and D.S. Bergtold (U.S.A.) 123
Inhibitory action of peony root extract on the mutagenicity of benzo[*a*]pyrene
by Y. Sakai, H. Nagase, Y. Ose, H. Kito, T. Sato, M. Kawai and M. Mizuno (Japan) 129
Ca antagonist verapamil and tumor promoter 12-*O*-tetradecanoylphorbol-13-acetate (TPA) induce chromosomal aberrations in human lymphocytes
by J. Friedman, F. Shabtai, U. Sandowski, E. Baharav and I. Halbrecht (Israel) 135
Mutagenicity and lethal action of polychromatic near-ultraviolet (325 – 400 nm) on *Haemophilus influenzae* in the presence of nitrogen
by E. Cabrera-Juárez and M. Espinosa-Lara (Mexico) 141
Induction of micronuclei by mitomycin C and colchicine in the marine mussel *Mytilus galloprovincialis*
by F. Majone, R. Brunetti, O. Fumagalli, M. Gabriele and A.G. Levis (Italy) 147
Mutation induction in Chinese hamster lung V79 cells by five alk-2-enals produced by lipid peroxidation
by R. Canonero, A. Martelli, U.M. Marinari and G. Brambilla (Italy) 153
High sensitivity of Chinese hamster epithelial liver cells to toxic analogues of purines
by M. Simili, P. Tartaglia and G. Turchi (Italy) 157
Comparative genotoxicity of 3 procarcinogens in V79 cells as related to glutathione *S*-transferase activity of hepatocytes from untreated rats and those fed 2% butylated hydroxyanisole
by C.G. Rogers, E.G. Boyes and E. Lok (Canada) 163
A model system for studying the adsorption of a hydrophobic mutagen to dietary fibre
by A.M. Roberton, P.J. Harris, H.J. Hollands and L.R. Ferguson (New Zealand) 173
Effects of aluminium sulphate on human leukocyte chromosomes in vitro
by A.K. Roy, G. Talukder and A. Sharma (India) 179
In vivo effects of single or combined dietary antimutagens on mutagen-induced chromosomal aberrations
by H.W. Renner (F.R.G.) 185
Dose and time dependence of chromosomal aberration yields of bone marrow cells in male Chinese hamsters after a single i.p. injection of aflatoxin B_1
by I. Bárta, M. Adámková, T. Petr and J. Bártová (Czechoslovakia) 189
Interaction between X-ray- and restriction endonuclease-induced lesions in the formation of chromosomal aberrations
by C. Tanzarella, R. De Salvia, F. Degrassi, M. Fiore and F. Palitti (Italy) 197
Genotoxicity of ethyl carbamate in the Drosophila wing spot test: dependence on genotype-controlled metabolic capacity
by A. Frölich and F.E. Würgler (Switzerland) 201
Induction of chromosomal aberrations in male mouse germ cells by uranyl fluoride containing enriched uranium
by Q. Hu and S. Zhu (China) 209
On the distributions of spontaneous chromosomal aberrations in human peripheral blood lymphocytes in culture
by M.A Bender, R.J. Preston, R.C. Leonard, B.E. Pyatt and P.C. Gooch (U.S.A.) 215
Induction of anchorage-independent growth in human diploid fibroblasts by the cyclopenta-polycyclic aromatic hydrocarbon, benz[*l*]aceanthrylene
by S. Nesnow, G. Milo, P. Kurian, R. Sangaiah and A. Gold (U.S.A.) 221
The effect of paracetamol on oxidative damage in human peripheral lymphocytes
by B. Binková, J. Topinka and R.J. Šrám (Czechoslovakia) 227
Cytogenetic effects of extremely low doses of plutonium-238 alpha-particle irradiation in CHO K-1 cells
by H. Nagasawa, J.B. Little, W.C. Inkret, S. Carpenter, K. Thompson, M.R. Raju, D.J. Chen and G.F. Strniste (U.S.A.) 233
An oxygen dependence in chromium mutagenesis
by K.D. Sugden, R.B. Burris and S.J. Rogers (U.S.A.) 239
Lack of DNA single-strand breaks in rat liver cells exposed to 4-acetylaminofluorene, in vivo and in vitro
by C. Nizard and F. Decloître (France) 245
Superoxide dismutase activity and chromosome damage in cultured chromosome instability syndrome cells
by K.-H. Lee, S. Abe, Y. Yanabe, I. Matsuda and M.C. Yoshida (Korea and Japan) 251

Correction of the ultraviolet light induced DNA-repair defect in xeroderma pigmentosum cells by electroporation of a normal human endonuclease
by G.J. Tsongalis, W.C. Lambert and M.W. Lambert (U.S.A.) 257
Novel structural concepts in elucidating the potential genotoxicity and carcinogenicity of tetrandrine, a traditional herbal drug
by H.S. Rosenkranz and G. Klopman (U.S.A.) 265
The interaction of methanol, rat-liver S9 and the aromatic amine 2,4-diaminotoluene produces a new mutagenic compound
by M.L. Cunningham, L.T. Burka and H.B. Matthews (U.S.A.) 273
cis-Diamminedichloroplatinum(II)-induced sister-chromatid exchanges and chromosome aberration formation in cultured human lymphocytes and their inhibition by sodium thiosulfate
by T. Ohe, S. Tsuda, Y. Sakata, M. Taniwaki, S. Misawa and T. Abe (Japan) 279
Influence of RNA synthesis on DNA-repair replication in human cell extracts
by G. Frosina and R.D. Wood (Great Britain) 287
Clastogenic effects of cesium chloride on mouse bone marrow cells in vivo
by A. Ghosh, A. Sharma and G. Talukder (India) 295
The effect of pentachlorophenol and its metabolite tetrachlorohydroquinone on cell growth and the induction of DNA damage in Chinese hamster ovary cells
by W. Ehrlich (Germany) 299
Mutagenicity of commercial hair dyes and detection of 2,7-diaminophenazine
by T. Watanabe, T. Hirayama and S. Fukui (Japan) 303
Cytochrome P-450 and chromosome damage by cyclophosphamide in LEC strain rats predisposed to hereditary hepatitis and liver cancer
by R. Masuda, S. Abe, M.C. Yoshida, M. Sasaki, T. Sugiyama and N. Taniguchi (Japan) 309
Infection with adeno-associated virus type 5 inhibits mutagenicity of herpes simplex virus type 1 or 4-nitroquinoline-1-oxide
by J.R. Schlehofer and R. Heilbronn (F.R.G.) 317
A comparative study of mutagenic and SOS-inducing activity of biphenyls, phenanthrenequinones and fluorenones
by S. Vasilieva, B. Tanirbergenov, S. Abilev, G. Migatchev and M.T. Huttunen (U.S.S.R. and Finland) 321
Inhibition of DNA repair synthesis in the rat by in vivo exposure to psychotropic drugs and reversal of the effect by co-administration with α-tocopherol
by R.J. Šrám, B. Binková, J. Topinka and I. Fojtíková (Czechoslovakia) 331
Induction of micronuclei in cultured murine splenocytes exposed to elevated levels of ferrous ions, hydrogen peroxide and ultraviolet irradiation
by I.E. Dreosti, P.A. Baghurst, E.J. Partick and J. Turner (Australia) 337
The micronucleus assay in human exfoliated cells of the nose and mouth: application to occupational exposures to chromic acid and ethylene oxide
by F. Sarto, R. Tomanin, L. Giacomelli, G. Iannini and A.R. Cupiraggi (Italy) 345
Mutations affecting RNA splicing in man are detected more frequently in somatic than in germ cells
by A.M. Rossi, J.C.P. Thijssen, A.D. Tates, H. Vrieling, A.T. Natarajan, P.H.M. Lohman and A.A. van Zeeland (The Netherlands) 353

Announcement 359

Contents, Vol. 244 (1990) 360